

ABSTRACT OF THE DISCLOSURE

The invention relates to a method for processing a seismic 3-D measurement data set, consisting of a multitude of seismic traces, each having a sequence of amplitude values or data points provided with acoustic impedances. Said method consists of the following: selecting a reference section at a predetermined location and depth which comprises neighbouring trace sections of several seismic traces; determining the similarity between the selected reference section and localised sections of seismic data from the measurement data set; creating a volume of data which corresponds to the measurement data record, using the similarity value which has been determined and allocated to each data point as the attribute. During processing of the seismic data, the inventive method enables the sub-surface images to be classified by an absolute comparison of the measurement data with a reference sample section as the means of interpretation.